AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claims 1, 7, 12, 15, 18, 19, 21, 24, 27-30, and 35 are amended. No new matter has been added.

Listing of Claims

1. (Currently Amended) A method, comprising:

examining a connection from a client machine;

retrieving, from a service information table ~~created~~ in the client machine, a filter parameter for the connection, the service information table including filter parameters and filter status information indicating whether a filter is currently enabled; and

implementing a filter, for a multicast program, according to the retrieved filter parameter ~~as a filter for a multicast program~~.

2. (Previously Presented) The method according to claim 1 wherein a receiver is integrated with the client machine.

3. (Original) The method according to claim 1 wherein examining a connection further comprises examining a user datagram protocol (UDP) port.

4. (Original) The method according to claim 1 wherein the connection from a client machine is used to determine the filter parameter to be retrieved.

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5. (Original) The method according to claim 1 wherein the filter parameter comprises a program identifier.

6. (Previously Presented) The method according to claim 1 wherein a receiver is a digital broadcast receiver.

7. (Currently Amended) A method, comprising:

examining a filter;

determining a connection the filter is associated with;

examining a plurality of connections from a client machine;

removing the filter if the connection from the client machine does not correspond

to the connection the filter is associated with,

wherein a filter parameter is fetched from a service information table created in

the client machine, the service information table including filter parameters and filter status

information indicating whether a filter is currently enabled, and

wherein the removal is according to the fetched filter parameter.

8. (Previously Presented) The method according to claim 7 wherein a receiver is integrated with the client machine.

9. (Original) The method according to claim 7 wherein examining a connection further comprises examining a user datagram protocol port.

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10. (Original) The method according to claim 7 wherein determining further comprises determining whether there is a connection to the client machine.

Claim 11 (Canceled)

12. (Currently Amended) A method, comprising:

      examining a message received from a client machine;

      retrieving, from a service information table ~~created~~ in the client machine, a filter parameter for a connection to the client machine, the service information table including filter parameters and filter status information indicating whether a filter is currently enabled; and

      implementing a filter, for a multicast program, according to the retrieved filter parameter ~~as a filter for a multicast program~~.

13. (Previously Presented) The method according to claim 12 wherein a receiver is integrated with the client machine.

14. (Previously Presented) The method according to claim 12 wherein a receiver is a digital broadcast receiver.

15. (Currently Amended) A method, comprising:

      examining a message received from a client machine;

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retrieving, from a service information table ~~created~~ in the client machine, a filter

parameter for a connection to the client machine, the service information table including filter

parameters and filter status information indicating whether a filter is currently enabled; and

removing a filter according to ~~based on~~ the retrieved filter parameter.

16. (Original) The method according to claim 15 wherein the message is an IGMP message.

Claim 17 (Canceled)

18. (Currently Amended) A method, comprising:

detecting an IGMP packet containing an instruction to join or leave a multicast

group, said IGMP packet being associated with an entry in a service information table ~~created~~ in

a receiving node;

removing a filter according to ~~based on~~ a filter parameter associated with the

entry in the table that corresponds to the IGMP message having the instruction to leave a

multicast group, wherein the filter parameter, according to ~~upon~~ which filter removal is based, is

retrieved from the service information table; and

adding a filter according to ~~based on~~ a filter parameter associated with the entry in

the table that corresponds to the IGMP packet having the instruction to enter a multicast group,

wherein the filter parameter, according to ~~upon~~ which filter addition is based, is retrieved from

the service information table,

wherein the service information table includes filter parameters and filter status

information indicating whether a filter is currently enabled.

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19. (Currently Amended) A method, comprising:

comparing each entry in a UDP Listener Table to each entry in a service

information table ~~created~~ in a receiving node;

retrieving, from the service information table, a filter parameter of a first type of

entry, wherein the first type of entry is present in the UDP Listener Table and not present in the

service information table;

implementing a <u>filter according to the retrieved</u> filter parameter of the first type of

entry ~~as a first filter~~;

retrieving, from the service information table, the filter parameter of a second type

of entry that is present in the service information table and not present in the UDP Listener

Table;

removing a ~~second~~ filter <u>according to the retrieved</u> ~~based on the~~ filter parameter

of the second type of entry,

<u>wherein the service information table includes filter parameters and filter status</u>

<u>information indicating whether a filter is currently enabled</u>.

20. (Previously Presented) The method according to claim 19 wherein the UDP Listener Table

entry is identified as a multicast address by a local IP address.

21. (Currently Amended) A method, comprising:

detecting a multicast data connection;

associating the data connection with a filter parameter;

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creating a socket;

binding the socket to a port number;

fetching, from a service information table ~~created~~ in a receiving node, the filter parameter, the service information table including filter parameters and filter status information indicating whether a filter is currently enabled; and

accepting data from the data connection,

wherein said data is processed based on the filter parameter, and wherein a filter according to the fetched filter parameter is implemented.

22. (Previously Presented) The method according to claim 21 wherein a multicast receiving node includes a digital broadcast receiver.

23. (Original) The method according to claim 22 wherein fetching further comprises examining a table containing service information.

24. (Currently Amended) A method, comprising:

detecting a data connection being closed;

associating the data connection with a filter parameter;

leaving a multicast group;

fetching, from a service information table ~~created~~ in a receiving node, the filter parameter, the service information table including filter parameters and filter status information indicating whether a filter is currently enabled;

removing a filter according to ~~based on~~ the fetched filter parameter.

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25. (Original) The method according to claim 24 wherein detecting further comprises continuously polling the user datagram protocol (UDP) Listener Table.

26. (Original) The method according to claim 25 wherein polling the UDP Listener Table further comprises identifying multicast data from the UDP Listener Table.

27. (Currently Amended) A method, comprising:

        detecting a IGMP message;

        retrieving a filter parameter from a service information table ~~created~~ in a receiving node, the service information table including filter parameters and filter status information indicating whether a filter is currently enabled;

        implementing ~~activating~~ a filter according to ~~based on~~ the retrieved filter parameter; and

        changing a filter status in the service information table.

28. (Currently Amended) A method, comprising:

        polling a UDP Listener Table;

        correlating a UDP entry with a service information table entry;

        identifying a service information table entry having an active status as the filter status;

        removing a data filter according ~~corresponding~~ to a filter parameter of the identified service information table entry, wherein the filter parameter is retrieved from a service

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information table ~~created~~ in a receiving node, the service information table including filter

parameters and filter status information indicating whether a filter is currently enabled; and

changing the filter status of the service information table entry.

29. (Currently Amended) An article of manufacture, comprising:

a computer readable medium including instructions for:

detecting an IGMP packet with instruction to join or leave a multicast

group;

removing a filter for a service information table entry that corresponds to

the IGMP packet having the instruction to end a subscription, wherein the removal is

according to a filter parameter retrieved from a service information table in a receiving

node; and

adding a filter for a service information table entry that corresponds to the

IGMP packet having the instruction to begin a subscription, wherein the addition is

according to a filter parameter retrieved from the service information table,

wherein ~~a filter parameter is retrieved from a~~ the service information table

includes filter parameters and filter status information indicating whether a filter is

currently enabled ~~created in a receiving node~~.

30. (Currently Amended) An article of manufacture, comprising:

a computer readable medium including instructions for:

finding a service information table entry that corresponds to a UDP entry

having a local IP address associated with a port number of a multicast connection;

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removing a filter <u>according to</u> <s>that contains</s> a filter parameter, retrieved

from a service information table <s>created</s> in a receiving node, corresponding to a service

information table entry with which there is no UDP entry associated; and

activating a filter <s>for</s> <u>according to</u> a filter parameter, retrieved from the service

information table, that is in both tables and for which the filter is not applied<u>,</u>

<u>wherein the service information table includes filter parameters and filter status</u>

<u>information indicating whether a filter is currently enabled.</u>

31. (Original) The method according to claim 1 wherein the method is implemented in a wireless

handheld terminal.

32. (Original) The method according to claim 18 wherein the method is implemented in a

wireless handheld terminal.

33. (Original) The method according to claim 21 wherein the method is implemented in a

wireless handheld terminal.

34. (Original) The method according to claim 28 wherein the method is implemented in a

wireless handheld terminal.

35. (Currently Amended) A terminal, comprising:

a memory device for storing a program; and

a processor in communication with the memory device, the processor operative

with the program to:

examine a connection;

retrieve, from a service information table ~~created~~ in the terminal, a filter

parameter for the connection, the service information table including filter parameters and filter

status information indicating whether a filter is currently enabled; and

implement a filter, for a multicast program, according to the retrieved filter

parameter ~~as a filter for a multicast program~~.

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